

- acgiognathous, 384.
 desomognathous, 384.
 dromacognathous, 373, 384.
 hard, 400.
 ncognathous, 369.
 palacognathous, 367, 373.
 schizognathous, 383.
 soft, 400.
 alatine, 168, 217, 287.
 alato-pterygo-quadrate, 84.
 alato-quadrate, 55, 168, 217.
 an, 487.
 ancreas, 270, 265, 336, 414.
 ancreatic duct, 91.
 vein, 2, 6.
 ancreo-hepatic artery, 270.
 angolin, 480.
 apilla, urinogenital, 136.
 arachordals, 54, 60.
 aracoeles, 75.
 aracone, 445, 446.
 araconid, 445, 446.
 araglossal, 359.
 arahippus, 508.
 aramyxine, 69.
 arapineal body, 63.
 ARAPSIDA, 297.
 arapsid skull, 297.
 arasphenoid, 165, 166, 217, 283.
 Parasympathetic system, 276.
 Parathyroid, 337.
 PARAXONIA 449, 517.
 Paraxonic foot, 510.
 Parental care, 198.
 Parietal, 165, 253, 284.
 Parietal arteries, 97, 145.
 —fossa, 81.
 —organ, 310.
 —region, 165.
 —veins, 99, 147.
 Paroccipital process, 283, 425.
 Parrot, 372.
 Partridge, 371.
 Passer, 373.
 PASSERFORMES, 372.
 Patagium, 381.
 Patella, 361.
 Pathetic nerve, 151, 231.
 PECORA, 513, 514.
 Pecten, 277, 347.
 Pectinate type, 140.
 Pectoral arch, 305.
 —artery, 341.
 —fin, 88, 176.
 Pectoralis major, 331.
 —minor, 331.
 PEDICULATI, 180.
 PELECANIFORMES 369.
 Pelage, 442.
 Pelicanus, 369.
 Pelican, 369.
 Pelvicclasper, 74.
 —arteries, 145.
 —bone, 170.
 —fin, 88, 170.
 —girdle, 88, 119, 170, 189, 291, 325, 361.
 —vein, 271.
 PELYCOSAURIA, 295.
 Penguins, 368.
 Penis, 399.
 Pentadactyle limb, 241.
 Pen-tailed shrew, 475.
 Pepsin, 402.
 Perameles, 471.
 PERAMELOIDEA, 471.
 Perca, 180.
 Perch, 180.
 Perching foot, 378.
 PERCIFORMES, 180.
 PERCOMORPHI, 180.
 PERCOPSIFORMES, 179.
 Percopsis, 179.
 Perenial gland, 399.
 PERENNIBRANCHIATA, 249.
 Perdix, 371.
 PERIBLASTICA, 29.
 Peribranchial cavity, 21.
 Pericardial cavity, 89, 138, 223.
 Pericardium, 10, 268.
 Pericardio-peritoneal canal, 89.
 —septum, 112.
 Perilymph, 109, 157.
 Perioptthalmus, 183, 192.
 Peripharyngeal band, 43.
 —groove, 23.
 PERISSODACTYLA, 437, 507.
 Peritoneum, 137.
 Permian period, 4.
 Peronaeus muscle, 334.
 —medius muscle, 334.
 Petaurista, 489.
 PEROPHORIDAE, 29.
 Perophora, 29.
 Pes, 263.
 Petromyzon, 57.
 P. marinus, 57.
 PETROMYZONTIA, 57.
 Petrosal, 448, 465.

Pharynx, 30.
 Phalanger, 441.
 Phalanges, 219, 220.
 PHALANGEROIDEA, 470.
 Phallaria, 29.
 PHANEROGLOSSA, 244.
 Pharyngeal vein, 126.
 Pharyngeal branchial, 85.
 Pharyngo-cutaneous duct, 70.
 Pharyngohyal, 124.
 Phasianus, 371.
 Pheasant, 371.
 PHILEB-BRANCHIATA, 29.
 Phoca, 499.
 Phocaena, 493.
 PHOCIDAE, -99.
 PHOLIOOTA, 436, 481.
 Phoroceoid, 31.
 Photo-receptors, 106.
 Phyllomedusa, 247.
 PHYLLOSTOMATIDAE, 477.
 Phrynosoma, 311, 312.
 Physter, 493.
 PHYSOCLISII, 179, 193.
 Physoclistous, 193.
 PHYSOSTOMI, 179, 193.
 Physostomous, 193.
 Piamater, 228, 274.
 PICIFORMES, 372.
 Picus, 312.
 Pig, 572.
 Pigeon's milk, 335.
 PILOSA, 479.
 Pineal apparatus, 62, 275.
 Pineal body, 103, 125, 149.
 —eye, 62, 310.
 —stalk, 103.
 Pinnae, 399, 417.
 PINNIPEDIA, 499.
Pipa americana, 244, 248.
 Piscine musculature, 54.
 Pisiform bone, 290.
 Pit-organs, 110, 154.
 Pituitary body, 103, 229, 275.
 —gland, 337, 413.
 Placenta, 11, 121, 459, 462.
 Placental cord, 115.
 PLACENTALIA, 435, 472.
 PLACDERMI, 1, 73.
 Placoid scale, 74, 77.
 —development of, 77.
 Placula, 26.
 Plantigrade foot, 452.
 Plastron, 297, 303.
 Platybasal skull, 167.

Platypus, 463, 464.
 PLECTOGNATHI, 180.
 Pleistocene epoch, 180.
 PLESIOSAURIA, 296.
 PLEURACANTHODI, 180.
 Pleural membrane, 103.
 —rib, 162.
 Pleurocentra, 242.
 PLEURODIRA, 297.
 Pleurodont teeth, 311.
 PLEUROGONA, 29.
 PLEURONECTIFORMES, 180.
 Pleuronectus, 180.
 PLEUROTREMATA, 180.
 Pliocene, 4.
 pliohippus, 509.
 Pneumatic bone, 379.
 —duct, 193.
 —foramen, 360.
 Pneumatic duct artery, 147.
 —vein, 147.
 PODICIPITIFORMES, 369.
 Podiceps, 369.
 Poikilothermal, 262.
 Poikilothermous, 239.
 POLYCITORIDAE, 29.
 Pollex, 241, 291, 399.
 Polycarpa, 29.
 Polyodon, 128.
 POLYCLINIDAE, 29.
 Polyclinum, 29.
 POLYPROTODONTITA, 130.
 POLYPTERINI, 130.
 Polypterus, 130.
 Pongidae, 486.
 Pongo, 487.
 Pons varolii, 413, 453.
 Porcupine, 490.
 Porpoise, 493.
 Post-cardinal vein, 45.
 Post-caval vein, 207, 225, 271.
 Post-cleithrum, 175, 176.
 Post-frontal, 166, 285.
 Post-patagium, 329.
 Postorbital, 166, 285.
 Postorbital cartilage, 82.
 —process, 119.
 —sinus, 98.
 Post-temporal, 175, 176.
 Post trematic nerve, 107.
 Postzygapophysis, 160, 214, 215.
 Postero-lateral process, 160.
 Postero-ventral process, 163.
 Posterior cardinal, 62, 145.

- sinus, 99.
- veins, 148.
- Posterior clasper, 113, 123.
- Posterior commissure, 149, 273.
- Posterior dorsal (tectal) plate, 60.
- Posterior gastric artery, 96.
- Posterior intestinal artery, 96.
- vein, 100.
- Posterior lateral cartilage, 60.
- Posterior mesenteric artery, 97, 270, 342.
- vein, 148.
- Posterior peripharyngeal ridge, 23.
- Posterior temporal arch, 309.
- fossa, 287.
- Posterior thoracic air-sac, 339.
- Posterior renal artery, 342.
- Posterior rectus, 109.
- Pouches, mammary, 466.
- Pre-anal scales, 264.
- Pre-cardinal vein, 45.
- Precavals, 226, 258, 268, 271.
- Precocial, 362, 386.
- Precoracoid, 218.
- Predigital remiges, 332.
- Prefrontal, 285.
- Prehallux, 220.
- Premaxilla, 168, 217, 286.
- Preolfactory nerve, 102, 105.
- Preopercular, 170.
- Prepatagium, 329.
- Prepubic process, 119, 361.
- Prepubis, 292.
- Prepuce, 399.
- Prespheonid, 356, 427, 459.
- Pressure regulator 194.
- Presternum, 465.
- Pretrematic nerve, 107.
- Prezygapophysis, 160, 214, 280.
- Primary lammellae, 44.
- remiges, 381.
- rods, 44.
- PRIMATES, 436, 481.
- Primitive groove, 391.
- Primitive not, 391.
- Primitive pit, 391.
- Primitive streak, 391.
- Pristophorus, 116.
- Pristis, 117.
- Proamnion, 394.
- Pro-at las, 308, 324.
- PROBOSCIDA, 437, 503.
- Proboscis cavity, 8.
- coelm, 8.
- pore, 8.
- sac, 10.
- skeleton, 10.
- PROCAVIA, 501.
- PROCAVIDAE, 501.
- PROCELLARIFORMES, 371.
- Procoelus vertebra, 79, 246, 280.
- Procoracoid, 218, 254, 289, 290, 303, 465.
- Pronation, 451.
- Pronephric duct, 56, 72.
- Pronephros, 56, 72.
- Prong-buck, 515.
- Prootic, 164, 184.
- Propterygium, 88.
- Prosencephalon, 67, 146.
- PROSIMI, 482.
- Prosocoel, 62, 102, 149.
- Prostrate gland, 420, 455.
- Propterygium, 119.
- Proteus, 243, 249.
- Proto-abdominal vein, 272.
- Protocoel, 8.
- PROTOC ORDATA, 1.
- Protocercal tail fin, 164.
- Protocone, 445, 446.
- Protoconid, 445, 446.
- Protoconule, 446.
- Protoconulid, 446.
- Protopterus, 199, 201.
- PROTOSAURIA, 296.
- PROTOSELACHII, 74.
- Protosome, 7.
- PROTOSTOMES, 2.
- PROTOTHERIA, 434, 463.
- PROTOUNGULATA, 437, 501.
- Protovertebrae, 50.
- Proventriculus, 325.
- Pseudobranch, 140.
- PSEUD SUCHIA, 363.
- Psittacula, 372.
- PSITTACIFORMES, 372.
- PTERASPIDA, 57.
- Pteraspis, 57.
- PTEROBRANCHIA, 6, 14, 17.
- PTEROSAURIA, 299.
- Pteropus, 476.
- Pterotic, 164.
- Pteroplatea micrura, 117.
- Pterygoid, 217, 287, 449.
- process, 427.
- muscle, 488.
- Pterylae, 333.
- Ptilocercus, 475.
- P. lowii, 475.
- PTYCHOBANCHIA, 29.

- Pubo-ischial, 124.
Puffinus, 371.
 Pulmo-cutaneous arch, 224.
 Pulmo gastric omentum, 266.
 Pulmonary, arch, 269.
 —artery, 209, 225, 342.
 —vein, 210, 226.
 —respiration, 222.
 pulp cavity, 77.
 Pupil, 65, 108, 233, 346.
PYGOPODIDAE, 313.
Pygopus, 313.
 Pygostyle, 351, 379.
 Pyloric sphincter, 265.
 Pyriform lobe, 411.
 —cortex, 453.
Pyrosoma, 19, 32.
PYROSOMIDAE, 32.
 Python, 317.
PYURIDAE, 29.
 Quadrate, 168, 217, 287.
 Quadratojugal, 217, 357.
 Quail, 371.
 Quarternary Epoch, 4.
 Quill feather, 330, 331.
 Rabbit, 399, 411.
 Rachis, 330.
RACHITOMI, 243.
 Rachitinous vertebrae, 242.
 Radial, 175, 176.
 —fin rays, 86.
 Radiale, 219, 241, 290, 453.
 Radii, 159.
 Radio-ulna, 219.
 Radius, 240.
 Rail, 371.
Rallus, 371.
 Ramus buccalis, 107, 152.
 —communicantes, 276.
 —communicans, 108.
 —hyomandibularis, 107.
 —palatinus, 107, 152.
Rana, 246.
R. tigrina, 213.
Rangifer, 514.
RANIDAE, 246.
 Rat, 491.
 Rathke's pouch, 64.
RATITAE, 367, 373.
 Rattle snake, 317.
Rattus, 491.
 Rectal caeca, 336.
 Rectal gland, 91.
 —veins, 147.
 Rectrices, 332.
 Rectum, 91, 220, 336.
 Rectus muscles, 109.
 Red gland, 140.
 —artery, 145.
 Refection, 403.
Regallicus, 182.
 Reindeer, 514.
 Remiges, 351.
 Renal artery, 342.
 —capsule, 60.
 —vein, 62, 225, 271, 343.
 —portal system, 99, 226.
 —portal vein, 99, 146, 226, 257.
 Renin, 402.
REPTILIA, 262.
 Reproduction, 258.
 Reproductive organs, 11, 48, 66.
 —system, 15.
 Resonator, 194.
 Respiration mechanism, 141.
 Respiratory organs, 337, 404.
 —system, 10, 15, 61, 91.
 140, 190, 202, 222, 255, 272,
 —tube, 61.
 Rete mirabile, 194.
 Retia mirabilia, 194, 492.
 Reticulum, 511.
 Ratina, 108, 155, 232, 347.
 Retrogressive metamorphosis, 28.
Rhabdopleura, 6, 14, 16, 17.
RHACOPH RIDAE, 46.
 Rachoporous, 246.
 Rhampotheca, 329.
Rhea, 367.
RHEIFORMES, 367.
 Rheoreceptors, 111, 154.
 Rhinal fissure, 137, 411.
Rhinobotus, 117.
Rhinochimaera, 122.
RHINOCHIMAERIDAE, 122.
 Rhinocephalon, 149.
Rhinoceros, 510.
RHINOCERATIDAE, 510.
RHINOCERATOIDEA, 510.
 Rhinocoele, 62, 102, 121, 149, 229.
Rhinoderma, 248.
RHIPIDISTIA, 199.
 Rhizodus, 199.
 Rhombencephalon, 62, 104, 150,
 276.
 Rhomboid scales, 130, 132.
RHYNCHOCEPHALIA, 298, 307.
 Ribbon-fish, 182.
 Ribs, 162, 282, 355, 424.
 Right-whale, 494.

- Rita rita**, 134, 192.
RODENTIA, 436, 488.
 Rods of eye, 108, 232.
 Roots of teeth, 401.
 Rostral, 164.
 Rostrum, 81, 118, 124, 356.
 Rumen, 511.
Ruminantia, 513.
 Ruminants, 511, 513.
 Ruminant stomach, 511.
 Rumination, 511.
 Sac-cells, 186.
Saccobranchus (= **Heteropneustes**)
 fossilis, 190.
Saccoglossus, 7.
 Sacculus, 65, 108, 156, 233, 278,
 418.
 — *rotundus*, 401.
 Saccus vascullosus, 103, 84^c.
 Sacrum, 451.
 Sagittal crest, 449.
Salamandra, 243, 250.
SALAMANDROIDEA, 250.
SALIENTIA, 243.
Salmo 178.
SALMOPERCAE, 179.
Salpa 19, 32, 35.
SALPIDAE, 32, 35.
SAUROPSIDA, 362.
 Sauropterygians, 296.
 Saw-fish, 118.
 Saw-shark, 116.
 Scala vestibuli, 415.
 — *media*, 418.
 Scales, cosmoid, 126.
 — *ctenoid*, 126.
 — *cycloid*, 126.
 — *ganoid* 126, 130.
 — *placoid*, 77.
 Scaly ant-eater (= **Mains**), 481.
Scaphirhynchus, 128.
Scaphium, 161, 188.
Scaphoid, 451.
 Scapula, 119, 175, 218, 289, 299.
 Scapular artery, 269.
 — *foramen*, 176.
 — *process*, 135.
 — *region*, 218.
 — *vein*, 271.
 Scapus, 330.
 Schizocoele, 67.
 Schizognathous palate, 333.
Sciurus, 439.
SCIUROMORPHA, 439.
 Sclerotic, 108, 155, 277.
Scoliodon, 74, 116.
S. norrakowah, 75.
Scomber, 180.
SCOMBERIDAE, 180.
 Scroll valve, 91.
 Scrotal sac, 399.
 Scutes, 135.
Scyliorhinus, 113, 116.
SCYLLIOIDEI, 116.
 Sea-cow, 506.
 Sea-horse, 198.
 Seal (**Phoca**), 499.
 Sea-lion, 500.
 Sea-squirt, 19.
 Sebaceous glands, 415, 443.
 Secondaries 331.
 Secondary lamellae, 44.
 — *rods*, 44.
SELACHII, 74, 110.
 Selenodont molar, 446, 511.
 Sella teretica, 447.
 Semi-circular canals, 108, 156,
 233.
 Semi-lunar valves, 94.
SEMIONOTOIDEA, 132.
 Seminiferous tubules, 112, 158.
Semnopithecus, 486.
 Septum transversum, 89, 160.
SERPENTES (OPHIDIA) 315.
Seymouria, 243.
S. belorensis, 253.
SEYMOURIAMORPHA, 243.
 Shagreen, 118.
 Shark, 74.
 Shear water, 371.
 Sheep, 516.
 Shrew elephant, 474.
 — *tree*, 473, 474.
 Shell gland, 113.
 — *membrane*, 387.
 Shovel-nosed sturgeon, 128.
 Sigmoid notch, 430.
 Silurian peridd, 4.
 Sino-auricular aperture, 223, 268.
 — *valves*, 268.
 Sino-atrial aperture, 93.
 Siurus endolymphaticus, 156.
 — *venoosus*, 146, 223.
 — *rhomboidalis*, 345.

- Siphons, 113.
 —atrial, 20.
 —oral, 20.
Sirdeon, 260.
 Siren, 249, 250.
SIERNIA, 437, 506.
Sisturus, 317.
 Skeleton, 383, 422, 464, 468, 477.
 Skin 414.
 Skull, 54, 80, 253, 383, 447.
 Sloth, 479.
 —three-toed, 479.
 —two toed, 480.
 Slow worm, 313.
 Snakes, 315.
 Soft palate, 400.
 Soft-rayed fishes, 178.
Solea, 180.
 Solenocytes, 47.
 Somatic layer, 50, 392.
 Somactidia, 86.
 Somites, 50.
Sorex minutus, 474.
SORCIDAE, 474.
SORICOIDDA, 473, 474.
SORICOMORPHA, 473.
 Sound producing organ, 194.
 Sparrow, 377.
 —beak, 376.
 Spermatic cord, 420.
 —vein, 225.
 Spermi-duct 113.
 Sperm sac, 112, 113.
 Sperm-whale, 493.
Sphargis, 300.
 Sphenethemoid, 217, 448.
Sphenicus, 369.
SPHENISCIFORMES, 269.
Sphenodon, 307.
S. punctatum, 307.
 Sphenoidal fissure, 428.
 —region, 168, 216.
 Sphenotic, 164.
Sphyrna, 116.
SPHYRAENIDAE, 182.
 Spicules, 21.
 Spider monkey, 483 486.
 Spinal cord, 153, 274.
 Spinal accessory nerves, 276.
 Spinal nerves, 107, 227, 410.
 Spiny ant-eater, 463.
 Spiracle, 118.
 Spiracular artery, 145.
 —epibranchial artery, 33.
 Splanchnotome, 50.
 Spleen, 221, 266.
 Splenial, 288.
 Splenic artery, 145.
 —vein, 147.
 Spoon bill, 376.
Squalus, 116.
SQUAMATA, 298, 310.
 Squamosal, 217, 286, 295, 356, 438.
 Squirrel monkey, 485.
 Stapes, 217, 233, 417, 428.
 Stapedial artery, 97.
 Stato-acoustic organs, 109.
 Statoreceptors 110.
STEGOCEPHALIA, 242.
STEROSPONDYLI, 243.
 Sterospondylous, 242.
 Sterno-tracheal muscle, 337.
 Sternum, 208, 283, 424.
 Stickleback, 198.
 Stigmata, 21, 37.
 Sting-ray, 117.
 Stolon, 36.
 Stomochord, 10, 14.
 Stomodaeum, 64, 239.
 Stratum cornucum, 54 213, 441.
 —Malpighium, 441.
 Strepto-stylic, 287, 314, 358.
STRIGIFORMES, 372.
Struthio, 367.
STRUTHIONIFORMES, 367.
 Sturgeon, 128.
 Stylet (spinous) cartilage, 60.
 Stylohyal, 169.
 Styloid process, 60.
 Sub-atrial ridge, 51.
 Sub-cardinal sinus, 62.
 Sub-caudal scales, 264.
 Sub-chordal rod, 60.
 Sub clavian-artery, 97, 225, 269.
 —vein, 147, 225, 271.
 Sub-intestinal vein, 45.
 Sub-ocular arch, 60.
 Sub-opercular, 170.
 Sub-orbital ridge, 82.
 Sub-scapular vein, 225.
SUB-UNGULATA, 501.
 (=PAENUNGULATA)
 Sucker, fish, 180.
SUIDAE, 512.
SUIFORMES, 512.
SUINA, 512.
 Superior pharyngeal bone, 138.
 —rectus muscle, 108.
 —temporal arch, 308.
 —temporal fossa, 308.

- umbilicus, 330.
- Superficial ophthalmicus, 83.
- Supination, 451.
- Supra-angular, 288, 359.
- cleithrum, 175, 176.
- renal vein, 271.
- occipital, 163, 448.
- Supraorbital 166, 285,
- ridge, 82.
- Supra-renal, gland, 267, 271.
- Supra-renal vein, 271, 272.
- Suprascapula, 218, 289.
- Supratemporal, 168, 286.
- arch, 286, 287.
- arcade, 325.
- fossa, 286, 309.
- Surinam-toad, 244.
- Sus**, 512.
- S, scrofa**, 512.
- Suspensorium, 163, 169, 187, 217.
- Sustantacular cells, 154.
- Swallow, 376.
- Swan, 369.
- Sweat glands, 415, 415.
- Swifts, 372.
- Swim bladder, 131, 192.
- (= Air-bladder)
- Sword fish, 181.
- SYMBRANCHII**, 181.
- SYMBRANCHIFORMES**, 181.
- Sympathetic nervous system, 108,
- 153, 231, 276.
- Symplectic, 169, 170.
- Synapsid skull, 294.
- SYNAPSIDA**, 297.
- Synapticulae, 10.
- SYNAPTOSAURIA**, 298.
- Syndactyly, 469.
- Syndesmochorial placenta, 463,
- 511.
- Synsacrum, 351, 354.
- Syrinx, 337.
- Systemic arch, 269.
- Tachyglossus**, 435, 463.
- Tactile receptors, 231.
- Talonid molar, 445.
- Talpa**, 474.
- TALPIDAE**, 474.
- Tamandua**, 479.
- Tapetum, 108.
- Tapir, 510.
- TAPIRIDAE**, 510.
- TAPIRIDEA**, 510.
- Tapirus**, 510.
- T. terrestris**, 510.
- Tarsals, 240, 361.
- TARSIFORMES**, 484.
- Tarsius**, 484.
- T. spectrum**, 484.
- Tarso-metatarsus, 330, 361, 379, 448.
- Tasmanian Devil, 469.
- Wolf 469.
- Taste buds, 154, 415.
- Tatu Armadillo, 479.
- Teeth-homodont, 138.
- molariform, 138.
- villiform, 138.
- Telencephalon, 62, 149.
- Teleost, 135.
- TELEOSTEI**, 135, 177.
- Telolecithal, 237.
- Telotroch, 13.
- Temporal, 448.
- muscle, 488.
- vacuity, 362.
- Tenrec**, 473.
- TENRECOIDEA**, 473.
- Terminal nerve, 102.
- Tertiary period, 4.
- Tensor patagii, 334.
- posterioris, 334.
- Test, 20.
- Testes, 125.
- Testudo**, 300.
- Tetrodon**, 183.
- Thalamencephalon, 149, 229.
- Thalamus, 403.
- THALIACEA**, 32.
- THE ODONTIA**, 297, 299.
- Thecodont teeth, 327.
- Thecophora, 300.
- THERIA**, 435.
- THERIODONTIA**, 295, 439.
- Thoracic air-sac, 339.
- Thorax, 399.
- Thoraco-lumbar vertebrae, 280.
- Thylacinus**, 470.
- Thymus, 222, 413.
- Thyroid, 221, 413.
- Tibia, 240, 361.
- Tibiale, 220, 241, 451.
- Tibio-fibula, 219.
- tarsus, 361, 390.
- Tilapia**, 180, 198.
- Toads, 243.
- Tongue lamellae, 44.
- Tooth, structure, 443.
- development, 443, 444.
- Tornaria**, 12, 13.
- Torpedo**, 120.

- Tortoiseshell, 297, 299.
 Trabeculae, 58, 60.
 Trachea, 273, 337.
 Trachyporus, 182.
 TRAGULIDAE, 514.
 TRAGULINA, 514.
 Tragus, 514.
 Transverse branchial vessel, 23.
 Transverse bone, 287.
 Trapezium, 24, 290, 451.
 Trapezoid, 241, 290, 451, 463.
 Tree frog, 245.
 Tree-shrew, 474, 475.
 Triassic period, 4.
 Trichogaster fasciatus, 198.
 Tricuspid valve, 406.
 Trigeminal nerve, 64, 151, 231.
 Trigla, 180.
 Trigon, 445.
 Trigonal, 445.
 Tripin, 402.
 Tripus, 162, 188, 189.
 Triton, 250.
 Triton, 121.
 Tritubercular, 445.
 Tritubercule, Theory of, 445.
 Triturus, 250.
 Trochanter lesser, 292.
 —greater, 292, 361.
 Trochlear nerve, 64, 151.
 Trophoblast, 457.
 Trout, 178.
 Trygon, 117.
 Tuatara, 316.
 Tubercular facet, 355, 424.
 Tubercular head, 355, 424, 437.
 Tuberculo sectorial, 445.
 TUBULIDENTATA, 501.
 Tunica externa, 192.
 —interna, 193.
 TUNICATA, 1, 18.
 Tunicin, 20.
 Tupaia, 474, 475.
 TUPAIIDAE, 474.
 Turbinals, 427, 449.
 Turkay, 371.
 Turtle, 297, 299.
 Tusks, 503.
 TYLOPODA, 513.
 Tympanic bone, 427.
 —bulla, 427.
 —cavity, 278, 347, 427.
 —membrane, 233.
 Tympanum, 277, 337.
 Tympanohyal, 262, 448.
 Typhlops, 367.
 TYPHLOPODIDAE, 367.
 Typhlosome, 23, 61.
 Tyta, 371.
 Ulna, 240, 290.
 Ulnare, 241, 450.
 Umbilical cord, 490.
 Urochord, 330.
 —inferior, 330.
 —superior, 330.
 Urochord, 241, 290, 450.
 Uncinate process, 335.
 UNGUITICULARIA, 435, 475.
 Unguigrade root, 452, 501.
 Urochord mechanism, 110.
 Ureter, 112, 113, 157, 254.
 Urethra, 420.
 Urinary bladder, 157, 210, 234, 2.
 —papilla, 113.
 —sinus, 125.
 Urinogenital aperture, 136.
 —papilla, 113, 136.
 —organs, 233, 258, 455.
 —system, 195, 210, 278, 348.
 —sinus, 125, 157.
 UROCHORDATA, 1, 18.
 Urodæum, 336.
 URODELA, 245, 249.
 Urohyal, 169, 359.
 Uromastix, 262, 310.
 Urohardiwickii, 262.
 Uropygium, 330.
 Urostyle, 214, 246.
 URSIDAE, 496.
 Ursus, 496.
 Uteric corpus, 457.
 Uterus, 113, 420, 456.
 —bicornuate, 457.
 Utriculus, 65, 156, 278, 348, 418.
 Vagina, 113, 420.
 Vagus-nerve, 64, 152, 231.
 Valvula cerebelli, 151.
 Vampire (bats), 477.
 Vane, 330.
 Varanus, 280.
 V. monitor, 280.
 Vasa efferentia, 113, 126, 211.
 Vascular layer, 199.
 Vas deference, 113, 126, 158, 2.
 Veins, 257.
 Veler tentacles, 43.
 Velum, 43.
 Velum palati, 400.
 Ventral aorta, 23, 94, 143.
 —cartilage, 60.